

Report

# **Hazardous Waste Storage Pad Closure John F. Queeny Plant**

*Monsanto Company  
St. Louis, Missouri*

November 1994



5000 Cedar Plaza Parkway, Suite 211  
St. Louis, Missouri 63128



R00105672  
RCRA RECORDS CENTER  
Acc#12

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## **Appendix**

### **A Photographs**

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## **Exhibit**

### **A Analysis report**

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## 1. Introduction

O'Brien & Gere Engineers, Inc. was retained by Monsanto Company for the closure of the hazardous waste storage pad located at the John F. Queeny Plant at 1700 South Second Street in St. Louis, Missouri. The purpose of this report is to provide certification that the facility has been closed, as required by 40 CFR 265.115. This report includes a description of the facility, documentation of the closure activities, and a certification of closure.

### 1.1. Facility description

The hazardous waste storage pad is located on the north end of the John F. Queeny Plant. The facility consists of a coated, concrete pad with dimensions of 30 ft by 50 ft. The ends of the pad are sloped toward its center, and the sides of the pad are curbed. The facility is covered with a corrugated fiberglass roof and has corrugated fiberglass walls on both sides. A photograph of the facility is included in Appendix A.

The hazardous waste storage pad is a RCRA permitted facility which was used for the storage of drums containing hazardous waste. The RCRA facility identification number is MOD004954111. An inventory of wastes which have been stored at the facility is provided in Table 1-1.

**Table 1-1. Hazardous waste inventory**

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Methanol	Perchloroethylene Still Residue
Acetone	Dichloroethane Still Residue
Butanol	Lasso™
Hydraulic Fluids	TCC Floor Sweepings
L-Aspartic Acid	Aniline
Hydraulic Fluid Cartridge	Laboratory Solvents
p-Nitrophenetole Filter Cartridge	Outdated Cans of Paint
Maleic Anhydride	Contaminated Laboratory Material
p-Nitrophenetole	Laboratory Waste Tank Solvents
Oil	Oil Filters
Paint Solvents	Empty Sulfuric Acid Containers
L-Aspartic Dust Collector Bag	Garage Drain Rinse Water
L-Aspartic Catalyst	MON 70600 Filtrate Wash
Ethanol	Sodium Hydroxide and Water
Perchloroethylene	Acetic Acid Wash
Isopropanol	Fluorescent Light Bulbs
Toluene	Batteries (flashlight, radio, pager)
Ethylene Glycol and Water	3-Ring Phenoxyphenol KOH Wash
Hexane	3-Ring Phenoxyphenol Quench
Xylene	Chloro 3-Ring Phenol Water
Contaminated Protective Gear	m-Phenoxyphenol Residue
Activated Carbon Contaminated with p-Nitrophenetole	m-Phenoxyphenol Quench Water
Dioxin contaminated debris	OS-138 Quench
Aspirin Floor Sweepings	m-Phenoxyphenol Wash Water
Phenol	OS-138 Washes
Acetic Acid Filter Cartridge	OS-138 Filter Cake
Methyl Salicylate	Crushed Lab Glass
Dimethylformamide	Aerosol Cans

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Source: Monsanto Company

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## **2. Closure**

The closure of the hazardous waste storage pad was performed by OHM Remediation Services Corporation (OHM) under the observation of O'Brien & Gere Engineers, Inc. Mr. Rudi Sanchez was the Site Supervisor for OHM, while O'Brien & Gere Engineers, Inc. was represented by Ms. Julie Lowe, P.E., Project Engineer. The closure was performed on October 20 and 21, 1994.

The procedures used to close the facility were selected to meet the closure performance standards of 40 CFR 264.111 and 264.178. The procedures were intended to remove hazardous wastes and hazardous waste residues from the concrete floor. The following section provides a description of those procedures. Photographs of the closure activities are provided with this report in Appendix A.

### **2.1. Procedures**

Prior to OHM's mobilization to the hazardous waste storage pad, Monsanto Company removed hazardous waste containers from the facility. The concrete floor was observed to be stained in some areas. Also, the concrete coating was pitted in some areas and was starting to blister in other areas. However, evidence of severe damage to the floor, such as cracks, was not observed. Inspection of removed chips of concrete coating indicated that the stains had not penetrated the coating.

The concrete floor was cleaned with cold water using a high pressure water nozzle. The floor was subjected to two complete cleanings. The hazardous waste storage pad walls were not cleaned. Rinse water generated by the cleaning was contained on the pad and pumped into holding tanks. After the cleaning was completed, the rinse water was pumped into ten 55 gallon steel drums for disposal by Monsanto Company.



## 2.2. Sample collection

In order to evaluate the effectiveness of the closure activities, a sample of rinse water was collected during both cleanings. The samples were respectively identified as "Rinse 1" and "Final Rinse." The samples were collected in emptied distilled water containers (high density polyethylene). After collection, the samples were transferred to laboratory supplied sample containers. In addition to the two rinse water samples, an ambient blank sample was also collected by transferring distilled water into sample containers supplied by the laboratory. The ambient blank sample was collected just prior to the "Final Rinse" sample collection.

The sample containers were appropriately labeled and packed on ice in an ice chest. A chain of custody and analysis request form was completed, and the samples were shipped via overnight courier to Savannah Laboratories & Environmental Services, Inc. in Savannah, Georgia.

## 2.3. Analysis results

The rinse water samples were analyzed for volatile organic compounds, semivolatile organic compounds, pesticides, PCBs, dioxin, and RCRA heavy metals. The ambient blank sample was analyzed for volatile organic compounds only. The analysis report for the samples is included with this report as Exhibit A.

Volatile organic compounds, pesticides, PCBs, and dioxin were not detected in the rinse water samples. Results for RCRA heavy metals are summarized in Table 2-1. As shown in the table, concentrations of metals in the samples did not exceed maximum RCRA toxicity characteristic leaching procedure (TCLP) limits.

**Table 2-1. Metals analysis results**

Constituent	Rinse 1 (mg/L)	Final rinse (mg/L)	TCLP limit (mg/L)
Arsenic	<0.010	<0.010	5.0
Barium	0.080	0.018	100.0
Cadmium	0.0055	<0.050	1.0
Chromium	0.019	<0.010	5.0
Lead	0.18	0.0094	5.0
Selenium	<0.010	<0.010	1.0
Silver	<0.010	<0.010	5.0
Mercury*	<0.20	2.4	200

\*Results are in ug/L.

Source: Savannah Laboratories & Environmental Services, Inc.

Table 2-2 shows analysis results for those organic constituents which were detected in the rinse water samples. The concentrations of the constituents are not indicative of a threat to human health or the environment. A release of hazardous constituents to the ground or surface waters or to the atmosphere is not likely to result from the presence of the constituents at the detected concentrations on the surface of the concrete floor. The constituents detected are not included in the toxicity characteristic waste list set forth in 40 CFR 261.24.

**Table 2-2. Organic analysis summary**

Constituent	Rinse 1 (ug/L)	Final rinse (ug/L)
Butylbenzylphthalate	33	13
bis(2-Ethylhexyl)phthalate	< 10	16
Phenol	58	32

Source: Savannah Laboratories & Environmental Services, Inc.

## 2.4. Conclusions

The closure performance standards of 400 CFR 264.111 and 264.178 have been attained by the closure activities. Hazardous waste containers have been removed from the facility, and further maintenance of the facility is not required. There is no evidence that the integrity of the concrete floor and curbs has been compromised. Likewise, evidence of a release of hazardous materials on the asphalt surrounding the facility is not present. The chemical analyses results for the rinse water samples indicate that the release of hazardous constituents to the ground or surface waters or to the atmosphere is not likely to occur. Therefore, the closure of the facility is protective of human health and the environment.

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### 3. Certification

I certify that I have personally examined and am familiar with the information submitted in this document, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. Based on the information contained in this document, it is my understanding that the closure of the hazardous waste storage pad at the Monsanto Company John F. Queeny Plant has been performed in accordance with federal and Missouri hazardous waste management laws and applicable standards, rules, and regulations.

Respectfully submitted,



Dean L. Palmer, P.E.

Vice President

Missouri Registration No. EN 020425

Prepared by:

Ronald R. LePlatt, P.E.

Project Engineer


Missouri Registration No. EN 026006


Reviewed by:

Julie J. Lowe, P.E.

Project Engineer

Missouri Registration No. EN 026288

 11/22/94  
Signature of Owner/Operator

  
Name of Owner/Operator

## **Appendix A: Photographs**



**O'BRIEN & GERE**  
ENGINEERS, INC.

**MONSANTO COMPANY  
ST. LOUIS, MISSOURI  
HAZARDOUS-WASTE STORAGE  
PAD CLOSURE  
PROJECT 2600.027**

**PHOTOGRAPHIC LOG SHEET**

**Date:** 10/20/94

**Description:** Cleaning of floor using high-pressure water nozzle. Collection tanks are located on truck. Steel drums were used for final containerization.

**Photo by:** JJ Lowe



**Date:** 10/20/94

**Description:** Collection of rinse-water sample. Hose used to remove water from pad.

**Photo by:** JJ Lowe



**Date:** 10/20/94

**Description:** Hazardous-waste Storage Pad after cleaning. Note curbed sides, walls, and roof.

**Photo by:** JJ Lowe







**MONSANTO COMPANY  
ST. LOUIS, MISSOURI  
HAZARDOUS-WASTE STORAGE  
PAD CLOSURE  
PROJECT 2600.027**

**PHOTOGRAPHIC LOG SHEET**

**Date:** 10/20/94

**Description:** Hazardous-waste  
Storage Pad floor after cleaning.

**Photo by:** JJ Lowe



**Date:** 10/20/94

**Description:** Closeup of Hazardous  
waste Storage Pad floor after cleaning

**Photo by:** JJ Lowe



**Date:** 10/20/94

**Description:** Closeup of Hazardous  
waste Storage Pad floor, showing  
pitted area.

**Photo by:** JJ Lowe

**Exhibit A: Analysis report**



**O'BRIEN & GERE**  
ENGINEERS, INC.



# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S4-45751

Received: 22 OCT 94

Mr. Julie Lowe  
O'Brien & Gere  
5000 Cedar Plaza Parkway, Suite 211  
St. Louis, MO 63128

Project: 2600.027.911/Monsanto-RCRA Pad  
Sampled By: Client

## REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
45751-1	Rinse 1	10-20-94/1215
45751-2	Final Rinse	10-21-94/0945
PARAMETER	45751-1	45751-2
Volatiles by GC/MS (8240)		
Chloromethane, ug/l	<10	<10
Bromomethane, ug/l	<10	<10
Vinyl Chloride, ug/l	<10	<10
Chloroethane, ug/l	<10	<10
Methylene Chloride (Dichloromethane), ug/l	<5.0	<5.0
Acetone, ug/l	<25	<25
Carbon Disulfide, ug/l	<5.0	<5.0
1,1-Dichloroethene, ug/l	<5.0	<5.0
1,1-Dichloroethane, ug/l	<5.0	<5.0
Trans-1,2-Dichloroethylene, ug/l	<5.0	<5.0
cis-1,2-Dichloroethylene, ug/l	<5.0	<5.0
Chloroform, ug/l	<5.0	<5.0
1,2-Dichloroethane, ug/l	<5.0	<5.0
2-Butanone (MEK), ug/l	<25	<25
1,1,1-Trichloroethane, ug/l	<5.0	<5.0
Carbon Tetrachloride, ug/l	<5.0	<5.0
Vinyl Acetate, ug/l	<10	<10
Bromodichloromethane, ug/l	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0
1,2-Dichloropropane, ug/l	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l	<5.0	<5.0
Trichloroethene, ug/l	<5.0	<5.0

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45751-1	Rinse 1	10-20-94/1215
45751-2	Final Rinse	10-21-94/0945
PARAMETER	45751-1	45751-2
Dibromochloromethane, ug/l	<5.0	<5.0
1,1,2-Trichloroethane, ug/l	<5.0	<5.0
Benzene, ug/l	<5.0	<5.0
cis-1,3-Dichloropropene, ug/l	<5.0	<5.0
2-Chloroethylvinyl Ether, ug/l	<50	<50
Bromoform, ug/l	<5.0	<5.0
2-Hexanone, ug/l	<25	<25
4-Methyl-2-pentanone (MIBK), ug/l	<25	<25
Tetrachloroethene, ug/l	<5.0	<5.0
Toluene, ug/l	<5.0	<5.0
Chlorobenzene, ug/l	<5.0	<5.0
Ethylbenzene, ug/l	<5.0	<5.0
Styrene, ug/l	<5.0	<5.0
Xylenes, ug/l	<5.0	<5.0

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45751-1	Rinse 1	10-20-94/1215
45751-2	Final Rinse	10-21-94/0945
PARAMETER	45751-1	45751-2
Semivolatile Organics (8270)		
1,3-Dichlorobenzene, ug/l	<10	<10
1,4-Dichlorobenzene, ug/l	<10	<10
Hexachloroethane, ug/l	<10	<10
bis(2-Chloroethyl)ether, ug/l	<10	<10
1,2-Dichlorobenzene, ug/l	<10	<10
Bis(2-chloroisopropyl)ether, ug/l	<10	<10
N-Nitrosodi-N-Propylamine, ug/l	<10	<10
Nitrobenzene, ug/l	<10	<10
Hexachlorobutadiene, ug/l	<10	<10
1,2,4-Trichlorobenzene, ug/l	<10	<10
Isophorone, ug/l	<10	<10
Naphthalene, ug/l	<10	<10
bis(2-Chloroethoxy)methane, ug/l	<10	<10
Hexachlorocyclopentadiene, ug/l	<10	<10
2-Chloronaphthalene, ug/l	<10	<10
Acenaphthylene, ug/l	<10	<10
Acenaphthene, ug/l	<10	<10
Dimethylphthalate, ug/l	<10	<10
2,6-Dinitrotoluene, ug/l	<10	<10
Fluorene, ug/l	<10	<10
4-Chlorophenyl-phenyl ether, ug/l	<10	<10
2,4-Dinitrotoluene, ug/l	<10	<10

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	
45751-1	Rinse 1	10-20-94/1215	
45751-2	Final Rinse	10-21-94/0945	
PARAMETER		45751-1	45751-2
Diethylphthalate, ug/l		<10	<10
N-Nitrosodiphenylamine/Diphenylamine, ug/l		<10	<10
Hexachlorobenzene, ug/l		<10	<10
4-Bromophenyl-phenyl-ether, ug/l		<10	<10
Phenanthrene, ug/l		<10	<10
Anthracene, ug/l		<10	<10
Di-n-butylphthalate, ug/l		<10	16
Fluoranthene, ug/l		<10	<10
Pyrene, ug/l		<10	<10
Benzidine, ug/l		<80	<80
Butylbenzylphthalate, ug/l		33	13
bis(2-Ethylhexyl)phthalate, ug/l		<10	16
Chrysene, ug/l		<10	<10
Benzo(a)Anthracene, ug/l		<10	<10
3,3'-Dichlorobenzidine, ug/l		<20	<20
Di-n-octylphthalate, ug/l		<10	<10
Benzo(b)fluoranthene, ug/l		<10	<10
Benzo(k)fluoranthene, ug/l		<10	<10
Benzo(a)pyrene, ug/l		<10	<10
Indeno(1,2,3-cd)pyrene, ug/l		<10	<10
Dibenz(a,h)anthracene, ug/l		<10	<10
Benzo(g,h,i)perylene, ug/l		<10	<10
N-Nitrosodimethylamine, ug/l		<10	<10

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45751-1	Rinse 1	10-20-94/1215
45751-2	Final Rinse	10-21-94/0945
PARAMETER	45751-1	45751-2
2-Chlorophenol, ug/l	<10	<10
2-Nitrophenol, ug/l	<10	<10
Phenol, ug/l	58	32
2,4-Dimethylphenol, ug/l	<10	<10
2,4-Dichlorophenol, ug/l	<10	<10
2,4,6-Trichlorophenol, ug/l	<10	<10
4-Chloro-3-methylphenol, ug/l	<10	<10
2,4-Dinitrophenol, ug/l	<50	<50
2-Methyl-4,6-dinitrophenol, ug/l	<50	<50
Pentachlorophenol, ug/l	<50	<50
4-Nitrophenol, ug/l	<50	<50
Benzyl alcohol, ug/l	<10	<10
2-Methylphenol (o-cresol), ug/l	<10	<10
3-Methylphenol/4-Methylphenol (m&p-cresol), ug/l	<10	<10
Benzoic acid, ug/l	<50	<50
4-Chloroaniline, ug/l	<20	<20
2-Methylnaphthalene, ug/l	<10	<10
2,4,5-Trichlorophenol, ug/l	<10	<10
2-Nitroaniline, ug/l	<50	<50
3-Nitroaniline, ug/l	<50	<50
Dibenzofuran, ug/l	<10	<10
4-Nitroaniline, ug/l	<50	<50
Cl-Dioxin/Furans		
Dioxin-2,3,7,8-TCDD (8280), ug/l	<0.0050	<0.0050

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45751-1	Rinse 1	10-20-94/1215	
45751-2	Final Rinse	10-21-94/0945	
PARAMETER		45751-1	45751-2
Cl-Pesticides/PCB (8080)			
Aldrin, ug/l		<0.050	<0.050
alpha-BHC, ug/l		<0.050	<0.050
beta-BHC, ug/l		<0.050	<0.050
gamma-BHC, ug/l		<0.050	<0.050
delta-BHC, ug/l		<0.050	<0.050
Chlordane, ug/l		<0.50	<0.50
4,4'-DDD, ug/l		<0.10	<0.10
4,4'-DDE, ug/l		<0.10	<0.10
4,4'-DDT, ug/l		<0.10	<0.10
Dieldrin, ug/l		<0.10	<0.10
Endosulfan I, ug/l		<0.050	<0.050
Endosulfan II, ug/l		<0.10	<0.10
Endosulfan sulfate, ug/l		<0.10	<0.10
Endrin, ug/l		<0.10	<0.10
Endrin Aldehyde, ug/l		<0.10	<0.10
Heptachlor, ug/l		<0.10	<0.10
Heptachlor epoxide, ug/l		<0.10	<0.10
Methoxychlor, ug/l		<0.50	<0.50
Toxaphene, ug/l		<5.0	<5.0
Aroclor-1016, ug/l		<1.0	<1.0
Aroclor-1221, ug/l		<2.0	<2.0
Aroclor-1232, ug/l		<1.0	<1.0
Aroclor-1242, ug/l		<1.0	<1.0
Aroclor-1248, ug/l		<1.0	<1.0
Aroclor-1254, ug/l		<1.0	<1.0
Aroclor-1260, ug/l		<1.0	<1.0

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45751-1	Rinse 1	10-20-94/1215	
45751-2	Final Rinse	10-21-94/0945	
PARAMETER		45751-1	45751-2
Arsenic (7060), mg/l		<0.010	<0.010
Barium (6010), mg/l		0.080	0.018
Cadmium (6010), mg/l		0.0055	<0.050
Chromium (6010), mg/l		0.019	<0.010
Lead (7421), mg/l		0.18	0.0094
Selenium (7740), mg/l		<0.010	<0.010
Silver (6010), mg/l		<0.010	<0.010
Mercury (7470), mg/l		<0.00020	0.0024

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## REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
45751-3	Trip Blank	10-21-94/0940
45751-4	Ambient Blank	
PARAMETER	45751-3	45751-4
Volatiles by GC/MS (8240)		
Chloromethane, ug/l	<10	<10
Bromomethane, ug/l	<10	<10
Vinyl Chloride, ug/l	<10	<10
Chloroethane, ug/l	<10	<10
Methylene Chloride (Dichloromethane), ug/l	<5.0	<5.0
Acetone, ug/l	<25	<25
Carbon Disulfide, ug/l	<5.0	<5.0
1,1-Dichloroethene, ug/l	<5.0	<5.0
1,1-Dichloroethane, ug/l	<5.0	<5.0
Trans-1,2-Dichloroethylene, ug/l	<5.0	<5.0
cis-1,2-Dichloroethylene, ug/l	<5.0	<5.0
Chloroform, ug/l	<5.0	<5.0
1,2-Dichloroethane, ug/l	<5.0	<5.0
2-Butanone (MEK), ug/l	<25	<25
1,1,1-Trichloroethane, ug/l	<5.0	<5.0
Carbon Tetrachloride, ug/l	<5.0	<5.0
Vinyl Acetate, ug/l	<10	<10
Bromodichloromethane, ug/l	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0
1,2-Dichloropropane, ug/l	<5.0	<5.0
trans-1,3-Dichloropropene, ug/l	<5.0	<5.0
Trichloroethene, ug/l	<5.0	<5.0



# SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S4-45751

Received: 22 OCT 94

Mr. Julie Lowe  
O'Brien & Gere  
5000 Cedar Plaza Parkway, Suite 211  
St. Louis, MO 63128

Project: 2600.027.911/Monsanto-RCRA Pad  
Sampled By: Client

## REPORT OF RESULTS

Page 9

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED	
45751-3	Trip Blank	10-21-94/0940	
45751-4	Ambient Blank		
PARAMETER		45751-3	45751-4
Dibromochloromethane, ug/l		<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	<5.0
Benzene, ug/l		<5.0	<5.0
cis-1,3-Dichloropropene, ug/l		<5.0	<5.0
2-Chloroethylvinyl Ether, ug/l		<50	<50
Bromoform, ug/l		<5.0	<5.0
2-Hexanone, ug/l		<25	<25
4-Methyl-2-pentanone (MIBK), ug/l		<25	<25
Tetrachloroethene, ug/l		<5.0	<5.0
Toluene, ug/l		<5.0	<5.0
Chlorobenzene, ug/l		<5.0	<5.0
Ethylbenzene, ug/l		<5.0	<5.0
Styrene, ug/l		<5.0	<5.0
Xylenes, ug/l		<5.0	<5.0

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## REPORT OF RESULTS

Page 10

### LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

45751-5 Method Blank Liquid  
45751-6 Accuracy (Mean % Recovery)  
45751-7 Precision (% RPD)  
45751-8 Date Extracted  
45751-9 Date Analyzed

PARAMETER	45751-5	45751-6	45751-7	45751-8	45751-9
Volatiles by GC/MS (8240)					
Chloromethane, ug/l	<10	---	---	---	10.21.94
Bromomethane, ug/l	<10	---	---	---	10.21.94
Vinyl Chloride, ug/l	<10	---	---	---	10.21.94
Chloroethane, ug/l	<10	---	---	---	10.21.94
Methylene Chloride (Dichloromethane), ug/l	<5.0	---	---	---	10.21.94
Acetone, ug/l	<25	---	---	---	10.21.94
Carbon Disulfide, ug/l	<5.0	---	---	---	10.21.94
1,1-Dichloroethene, ug/l	<5.0	94 %	11 %	---	10.21.94
1,1-Dichloroethane, ug/l	<5.0	---	---	---	10.21.94
Trans-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	10.21.94
cis-1,2-Dichloroethylene, ug/l	<5.0	---	---	---	10.21.94
Chloroform, ug/l	<5.0	---	---	---	10.21.94
1,2-Dichloroethane, ug/l	<5.0	---	---	---	10.21.94
2-Butanone (MEK), ug/l	<25	---	---	---	10.21.94
1,1,1-Trichloroethane, ug/l	<5.0	---	---	---	10.21.94
Carbon Tetrachloride, ug/l	<5.0	---	---	---	10.21.94
Vinyl Acetate, ug/l	<10	---	---	---	10.21.94
Bromodichloromethane, ug/l	<5.0	---	---	---	10.21.94

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Page 11

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45751-5 Method Blank Liquid  
45751-6 Accuracy (Mean % Recovery)  
45751-7 Precision (% RPD)  
45751-8 Date Extracted  
45751-9 Date Analyzed

PARAMETER	45751-5	45751-6	45751-7	45751-8	45751-9
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---	---	10.21.94
1,2-Dichloropropane, ug/l	<5.0	---	---	---	10.21.94
trans-1,3-Dichloropropene, ug/l	<5.0	---	---	---	10.21.94
Trichloroethene, ug/l	<5.0	99 %	14 %	---	10.21.94
Dibromochloromethane, ug/l	<5.0	---	---	---	10.21.94
1,1,2-Trichloroethane, ug/l	<5.0	---	---	---	10.21.94
Benzene, ug/l	<5.0	100 %	17 %	---	10.21.94
cis-1,3-Dichloropropene, ug/l	<5.0	---	---	---	10.21.94
2-Chloroethylvinyl Ether, ug/l	<50	---	---	---	10.21.94
Bromoform, ug/l	<5.0	---	---	---	10.21.94
2-Hexanone, ug/l	<25	---	---	---	10.21.94
4-Methyl-2-pentanone (MIBK), ug/l	<25	---	---	---	10.21.94
Tetrachloroethene, ug/l	<5.0	---	---	---	10.21.94
Toluene, ug/l	<5.0	100 %	11 %	---	10.21.94
Chlorobenzene, ug/l	<5.0	101 %	9.9 %	---	10.21.94
Ethylbenzene, ug/l	<5.0	---	---	---	10.21.94
Styrene, ug/l	<5.0	---	---	---	10.21.94
Xylenes, ug/l	<5.0	---	---	---	10.21.94

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45751-7 Precision (% RPD)  
45751-8 Date Extracted  
45751-9 Date Analyzed

PARAMETER	45751-5	45751-6	45751-7	45751-8	45751-9
Semivolatiles Organics (8270)					
1,3-Dichlorobenzene, ug/l	<10	---	---	10.22.94	10.23.94
1,4-Dichlorobenzene, ug/l	<10	70 %	4.3 %	10.22.94	10.23.94
Hexachloroethane, ug/l	<10	---	---	10.22.94	10.23.94
bis(2-Chloroethyl)ether, ug/l	<10	---	---	10.22.94	10.23.94
1,2-Dichlorobenzene, ug/l	<10	---	---	10.22.94	10.23.94
Bis(2-chloroisopropyl)ether, ug/l	<10	---	---	10.22.94	10.23.94
N-Nitrosodi-N-Propylamine, ug/l	<10	83 %	0 %	10.22.94	10.23.94
Nitrobenzene, ug/l	<10	---	---	10.22.94	10.23.94
Hexachlorobutadiene, ug/l	<10	---	---	10.22.94	10.23.94
1,2,4-Trichlorobenzene, ug/l	<10	76 %	5.3 %	10.22.94	10.23.94
Isophorone, ug/l	<10	---	---	10.22.94	10.23.94
Naphthalene, ug/l	<10	---	---	10.22.94	10.23.94
bis(2-Chloroethoxy)methane, ug/l	<10	---	---	10.22.94	10.23.94
Hexachlorocyclopentadiene, ug/l	<10	---	---	10.22.94	10.23.94
2-Chloronaphthalene, ug/l	<10	---	---	10.22.94	10.23.94
Acenaphthylene, ug/l	<10	---	---	10.22.94	10.23.94
Acenaphthene, ug/l	<10	92 %	2.2 %	10.22.94	10.23.94
Dimethylphthalate, ug/l	<10	---	---	10.22.94	10.23.94
2,6-Dinitrotoluene, ug/l	<10	---	---	10.22.94	10.23.94

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## REPORT OF RESULTS

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45751-8 Date Extracted  
45751-9 Date Analyzed

PARAMETER	45751-5	45751-6	45751-7	45751-8	45751-9
Fluorene, ug/l	<10	---	---	10.22.94	10.23.94
4-Chlorophenyl-phenyl ether, ug/l	<10	---	---	10.22.94	10.23.94
2,4-Dinitrotoluene, ug/l	<10	92 %	0 %	10.22.94	10.23.94
Diethylphthalate, ug/l	<10	---	---	10.22.94	10.23.94
N-Nitrosodiphenylamine/Diph enylamine, ug/l	<10	---	---	10.22.94	10.23.94
Hexachlorobenzene, ug/l	<10	---	---	10.22.94	10.23.94
4-Bromophenyl-phenyl-ether, ug/l	<10	---	---	10.22.94	10.23.94
Phenanthrene, ug/l	<10	---	---	10.22.94	10.23.94
Anthracene, ug/l	<10	---	---	10.22.94	10.23.94
Di-n-butylphthalate, ug/l	<10	---	---	10.22.94	10.23.94
Fluoranthene, ug/l	<10	---	---	10.22.94	10.23.94
Pyrene, ug/l	<10	87 %	6.9 %	10.22.94	10.23.94
Benzidine, ug/l	<80	---	---	10.22.94	10.23.94
Butylbenzylphthalate, ug/l	<10	---	---	10.22.94	10.23.94
bis(2-Ethylhexyl)phthalate, ug/l	<10	---	---	10.22.94	10.23.94
Chrysene, ug/l	<10	---	---	10.22.94	10.23.94
Benzo(a)Anthracene, ug/l	<10	---	---	10.22.94	10.23.94
3,3'-Dichlorobenzidine, ug/l	<20	---	---	10.22.94	10.23.94
Di-n-octylphthalate, ug/l	<10	---	---	10.22.94	10.23.94

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45751-5 Method Blank Liquid  
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45751-7 Precision (% RPD)  
45751-8 Date Extracted  
45751-9 Date Analyzed

PARAMETER	45751-5	45751-6	45751-7	45751-8	45751-9
Benzo(b)fluoranthene, ug/l	<10	---	---	10.22.94	10.23.94
Benzo(k)fluoranthene, ug/l	<10	---	---	10.22.94	10.23.94
Benzo(a)pyrene, ug/l	<10	---	---	10.22.94	10.23.94
Indeno(1,2,3-cd)pyrene, ug/l	<10	---	---	10.22.94	10.23.94
Dibenz(a,h)anthracene, ug/l	<10	---	---	10.22.94	10.23.94
Benzo(g,h,i)perylene, ug/l	<10	---	---	10.22.94	10.23.94
N-Nitrosodimethylamine, ug/l	<10	---	---	10.22.94	10.23.94
2-Chlorophenol, ug/l	<10	80 %	2.5 %	10.22.94	10.23.94
2-Nitrophenol, ug/l	<10	---	---	10.22.94	10.23.94
Phenol, ug/l	<10	81 %	2.3 %	10.22.94	10.23.94
2,4-Dimethylphenol, ug/l	<10	---	---	10.22.94	10.23.94
2,4-Dichlorophenol, ug/l	<10	---	---	10.22.94	10.23.94
2,4,6-Trichlorophenol, ug/l	<10	---	---	10.22.94	10.23.94
4-Chloro-3-methylphenol, ug/l	<10	82 %	2.4 %	10.22.94	10.23.94
2,4-Dinitrophenol, ug/l	<50	---	---	10.22.94	10.23.94
2-Methyl-4,6-dinitrophenol, ug/l	<50	---	---	10.22.94	10.23.94
Pentachlorophenol, ug/l	<50	64 %	6.3 %	10.22.94	10.23.94
4-Nitrophenol, ug/l	<50	80 %	5.0 %	10.22.94	10.23.94
Benzyl alcohol, ug/l	<10	---	---	10.22.94	10.23.94
2-Methylphenol (o-cresol), ug/l	<10	---	---	10.22.94	10.23.94

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## REPORT OF RESULTS

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## LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

-----  
45751-5 Method Blank Liquid  
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45751-7 Precision (% RPD)  
45751-8 Date Extracted  
45751-9 Date Analyzed  
-----

PARAMETER	45751-5	45751-6	45751-7	45751-8	45751-9
3-Methylphenol/4-Methylphenol (m&p-cresol), ug/l	<10	---	---	10.22.94	10.23.94
Benzoic acid, ug/l	<50	---	---	10.22.94	10.23.94
4-Chloroaniline, ug/l	<20	---	---	10.22.94	10.23.94
2-Methylnaphthalene, ug/l	<10	---	---	10.22.94	10.23.94
2,4,5-Trichlorophenol, ug/l	<10	---	---	10.22.94	10.23.94
2-Nitroaniline, ug/l	<50	---	---	10.22.94	10.23.94
3-Nitroaniline, ug/l	<50	---	---	10.22.94	10.23.94
Dibenzofuran, ug/l	<10	---	---	10.22.94	10.23.94
4-Nitroaniline, ug/l	<50	---	---	10.22.94	10.23.94

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45751-7 Precision (% RPD)  
45751-8 Date Extracted  
45751-9 Date Analyzed

PARAMETER	45751-5	45751-6	45751-7	45751-8	45751-9
Cl-Pesticides/PCB (8080)					
Aldrin, ug/l	<0.050	68 %	1.5 %	10.22.94	10.24.94
alpha-BHC, ug/l	<0.050	---	---	10.22.94	10.24.94
beta-BHC, ug/l	<0.050	---	---	10.22.94	10.24.94
gamma-BHC, ug/l	<0.050	76 %	3.9 %	10.22.94	10.24.94
delta-BHC, ug/l	<0.050	---	---	10.22.94	10.24.94
Chlordane, ug/l	<0.50	---	---	10.22.94	10.24.94
4,4'-DDD, ug/l	<0.10	---	---	10.22.94	10.24.94
4,4'-DDE, ug/l	<0.10	---	---	10.22.94	10.24.94
4,4'-DDT, ug/l	<0.10	---	3.3 %	10.22.94	10.24.94
Dieldrin, ug/l	<0.10	92 %	6.0 %	10.22.94	10.24.94
Endosulfan I, ug/l	<0.050	84 %	---	10.22.94	10.24.94
Endosulfan II, ug/l	<0.10	---	---	10.22.94	10.24.94
Endosulfan sulfate, ug/l	<0.10	---	---	10.22.94	10.24.94
Endrin, ug/l	<0.10	104 %	4.8 %	10.22.94	10.24.94
Endrin Aldehyde, ug/l	<0.10	---	---	10.22.94	10.24.94
Heptachlor, ug/l	<0.10	70 %	1.4 %	10.22.94	10.24.94
Heptachlor epoxide, ug/l	<0.10	---	---	10.22.94	10.24.94
Methoxychlor, ug/l	<0.50	---	---	10.22.94	10.24.94
Toxaphene, ug/l	<5.0	---	---	10.22.94	10.24.94



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45751-5 Method Blank Liquid  
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45751-7 Precision (% RPD)  
45751-8 Date Extracted  
45751-9 Date Analyzed

PARAMETER	45751-5	45751-6	45751-7	45751-8	45751-9
Aroclor-1016, ug/l	<1.0	---	---	10.22.94	10.24.94
Aroclor-1221, ug/l	<2.0	---	---	10.22.94	10.24.94
Aroclor-1232, ug/l	<1.0	---	---	10.22.94	10.24.94
Aroclor-1242, ug/l	<1.0	---	---	10.22.94	10.24.94
Aroclor-1248, ug/l	<1.0	---	---	10.22.94	10.24.94
Aroclor-1254, ug/l	<1.0	---	---	10.22.94	10.24.94
Aroclor-1260, ug/l	<1.0	---	---	10.22.94	10.24.94
Cl-Dioxin/Furans					
Dioxin-2,3,7,8-TCDD (8280), ug/l	<0.0050	89 %	2.2 %	10.22.94	10.24.94
Arsenic (7060), mg/l	<0.010	104 %	0.97 %	---	10.24.94
Barium (6010), mg/l	<0.010	99 %	0 %	---	10.24.94
Cadmium (6010), mg/l	<0.050	96 %	1.0 %	---	10.24.94
Chromium (6010), mg/l	<0.010	96 %	1.0 %	---	10.24.94
Lead (7421), mg/l	<0.0050	104 %	1.9 %	---	10.24.94
Selenium (7740), mg/l	<0.010	105 %	4.8 %	---	10.24.94
Silver (6010), mg/l	<0.010	92 %	1.1 %	---	10.24.94
Mercury (7470), mg/l	<0.00020	98 %	2.0 %	---	10.24.94

Methods: EPA SW-846

  
Karri L. Derr

Final Page Of Report



: (912) 58	ax (9) 1
Phone: (904) 878-3994	Fax (904) 878-95
Phone: (305) 421-7400	Fax (305) 421-25
Phone: (205) 666-6633	Fax (205) 666-66
Phone: (813) 885-7427	Fax (813) 885-70

P.O. NUMBER		PROJECT NUMBER		PROJECT NAME		MATRIX TYPE		REQUIRED ANALYSES								PAGE	OF		
		2600.027.911		MONSANTO - RCRA PAD												1	1		
CLIENT NAME				TELEPHONE/FAX NO.				AQUEOUS MATRIX NON-AQUEOUS MATRIX OIL MATRIX AIR MATRIX SW 8240 VOC SW 8270 SVOC SW 8280 DIOXIN #2,3,7,8 TCDD only per RmL 10/24/94 Mercury RCRA METALS										<input type="checkbox"/> STANDARD TAT	
OBRIEN & GORE ENGINEERS				(314) 842-4550 / 3226														<input checked="" type="checkbox"/> EXPEDITED TAT *	
CLIENT ADDRESS				CITY, STATE, ZIP CODE														REPORT DUE DATE 10/24 OR 10/25	
5000 CEDAR PLAZA PKWY Ste 211 St. Louis, MO 63128																		* SUBJECT TO RUSH FEES	
SAMPLER(S) NAME(S)				CLIENT PROJECT MANAGER															
JULIE J. LOWE				JULIE J. LOWE															
SAMPLING		SAMPLE IDENTIFICATION												NUMBER OF CONTAINERS SUBMITTED					
DATE	TIME																		
10/20/94	12:15	RINSE 1	X					2	2	2	1	1							
		TRIP BLANK	X					2											
		TEMPERATURE BLANK	X																
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE) (FEDEX)				DATE	TIME	RELINQUISHED BY: (SIGNATURE)				DATE	TIME				
Julie J. Lowe		10/21/94	1550	AEBILL # 931 2176602															
RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED BY: (SIGNATURE)				DATE	TIME				
FOR SAVANNAH LABORATORY USE ONLY												LABORATORY REMARKS							
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	RUSH												
J Baker A		10/22/94	11:34	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		45751													



☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301

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Fax (205) 666-66  
Fax (813) 885-70

P.O. NUMBER		PROJECT NUMBER		PROJECT NAME		MATRIX TYPE		REQUIRED ANALYSES										PAGE 1		OF 1					
CLIENT NAME				TELEPHONE/FAX NO.				AQUEOUS MATRIX NONAQUEOUS MATRIX OIL MATRIX AIR MATRIX SW 8080 PCSN/CIDES SW 8240 VOC SW 8270 SVOC SW 8280 DIOXIN only per 2011 Mercury to 10 ppt RCRA METALS										<input type="checkbox"/> STANDARD TAT				<input checked="" type="checkbox"/> EXPEDITED TAT			
CLIENT ADDRESS				CITY, STATE, ZIP CODE														REPORT DUE DATE 10/24 or 10/25 * SUBJECT TO RUSH FEES							
SAMPLER(S) NAME(S)				CLIENT PROJECT MANAGER																					
DATE				TIME																					
SAMPLING		SAMPLE IDENTIFICATION														NUMBER OF CONTAINERS SUBMITTED									
DATE		TIME																							
10/20/14		12:15		RINSE 1														2							
10/21/14		09:45		FINAL RINSE														2 2 2 2 1 1							
10/21/14		09:40		AMBIENT BLANK														2							
				TEMPERATURE BLANK																					
RELINQUISHED BY: (SIGNATURE)				DATE		TIME		RECEIVED BY: (SIGNATURE)				DATE		TIME		RELINQUISHED BY: (SIGNATURE)				DATE		TIME			
[Signature]				10/21/14		15:52		ARBILL # 1313821666																	
RECEIVED BY: (SIGNATURE)				DATE		TIME		RELINQUISHED BY: (SIGNATURE)				DATE		TIME		RECEIVED BY: (SIGNATURE)				DATE		TIME			
FOR SAVANNAH LABORATORY USE ONLY																		LABORATORY REMARKS							
RECEIVED FOR LABORATORY BY: (SIGNATURE)				DATE		TIME		CUSTODY INTACT				CUSTODY SEAL NO.				S.L. LOG NO.				RUSH					
[Signature]				10/22/14		11:34		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO								45751									